

WHAT IS CLAIMED IS:

1. A wireless local loop access network system comprising:

(a) at least one base station making radio communication with a plurality of subscriber's terminals;

(b) a base station controller controlling said base station and connected to a public switched telephone network; and

(c) a memory designed readable by said base station controller for storing subscriber data therein.

2. The wireless local loop access network system as set forth in claim 1, wherein said memory stores a first identifier used for identifying a subscriber in an interface protocol between said wireless local loop access network system and said public switched telephone network, a second identifier used for identifying a subscriber in an radio-signal interface protocol in said wireless local loop access network system, and data about correspondence between said first and second identifiers.

3. The wireless local loop access network system as set forth in claim 1, wherein said memory stores at least one of first data about a location of each of subscribers, second data about certification of each of subscribers, third data about status of a terminal of each of subscribers, and fourth data about service relating to a radio interface of each of subscribers.

4. The wireless local loop access network system as set forth in claim 3, wherein said third data includes data about whether a subscriber's terminal is blockaded.

5. The wireless local loop access network system as set forth in claim 3,

wherein said third data includes data about whether a subscriber's terminal is turned on or off.

5 6. The wireless local loop access network system as set forth in claim 3, wherein said fourth data includes data about whether a subscriber's voice should be kept secret.

7. A wireless local loop access network system comprising:

10 (a) at least one base station making radio communication with a plurality of subscriber's terminals; and

(b) a base station controller controlling said base station and connected to a public switched telephone network, said base station controller including a memory for storing subscriber data therein.

15 8. The wireless local loop access network system as set forth in claim 7, wherein said memory stores a first identifier used for identifying a subscriber in an interface protocol between said wireless local loop access network system and said public switched telephone network, a second identifier used for identifying a subscriber in an radio-signal interface protocol in said wireless local loop access
20 network system, and data about correspondence between said first and second identifiers.

25 9. The wireless local loop access network system as set forth in claim 7, wherein said memory stores at least one of first data about a location of each of subscribers, second data about certification of each of subscribers, third data about status of a terminal of each of subscribers, and fourth data about service relating to a radio interface of each of subscribers.

10. The wireless local loop access network system as set forth in claim 9,

wherein said third data includes data about whether a subscriber's terminal is blockaded.

11. The wireless local loop access network system as set forth in claim 9,
5 wherein said third data includes data about whether a subscriber's terminal is turned on or off.

12. The wireless local loop access network system as set forth in claim 9,
10 wherein said fourth data includes data about whether a subscriber's voice should be kept secret.

13. A method of operating a wireless local loop access network system including at least one base station making radio communication with a plurality of subscriber's terminal, a base station controller controlling said base station and
15 connected to a public switched telephone network, and a memory for storing subscriber data therein,

said method comprising the steps of:

(a) storing data about subscribers in said memory;

(b) transmitting an origination message to said base station controller
20 through said base station, when a subscriber hooks his/her terminal off;

(c) making access to said data stored in said memory to obtain an address, based on said origination message, said step (c) being carried out by said base station controller; and

(d) transmitting a first message together with said address to said public
25 switched telephone network.

14. The method as set forth in claim 13, wherein said origination message includes a first identifier for identifying a subscriber.

15. A method of operating a wireless local loop access network system including at least one base station making radio communication with a plurality of subscriber's terminal, a base station controller controlling said base station and connected to a public switched telephone network, and a memory for storing
5 subscriber data therein,

said method comprising the steps of:

(a) transmitting a registration message to said base station controller through said base station when a subscriber's terminal is powered on;

(b) said base station controller, on receipt of said registration message,
10 recognizing that a subscriber's terminal identified by said registration message is located in an area wherein said subscriber's terminal makes communication with said base station; and

(c) said base station controller storing a location of said subscriber's terminal in said memory.

15 16. The method as set forth in claim 15, further comprising the step (d) of storing the fact that said subscriber's terminal is powered on, in said memory, said step (d) being carried out by said base station controller.

20 17. The method as set forth in claim 15, wherein said registration message includes a first identifier for identifying a subscriber.

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25 18. A method of operating a wireless local loop access network system including at least one base station making radio communication with a plurality of subscriber's terminal, a base station controller controlling said base station and connected to a public switched telephone network, and a memory for storing subscriber data therein,

said method comprising the steps of:

(a) said public switched telephone network transmitting a first signal to said

base station controller, when said public switched telephone network receives a phone call to a subscriber;

(b) said base station controller making access to said memory to obtain a first identifier for identifying said subscriber, based on said first signal;

5 (c) said base station controller transmitting a page message to said base station, said page message indicating that a phone call to said subscriber has been received and including said first identifier;

20 (d) said base station, on receipt of said page message, broadcasting said page message therearound; and

10 (e) a terminal of said subscriber recognizing a phone call to itself by knowing that said first identifier, which is an identifier of said terminal, is contained in the thus broadcast page message.

15 19. A method of operating a wireless local loop access network system including at least one base station making radio communication with a plurality of subscriber's terminal, a base station controller controlling said base station and connected to a public switched telephone network, and a memory for storing subscriber data therein,

said method comprising the steps of:

20 (a) said public switched telephone network transmitting a port control signal to said base station controller, said port control signal indicating that a certain subscriber is to be blockaded, and including an identifier for identifying said certain subscriber;

25 (b) said base station controller storing that said certain subscriber is to be blockaded, in said memory;

(c) said base station controller making access to said memory on receipt of an origination message from said certain subscriber, and knowing that said certain subscriber is presently blockaded; and

(d) said base station controller transmitting a message to said certain

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